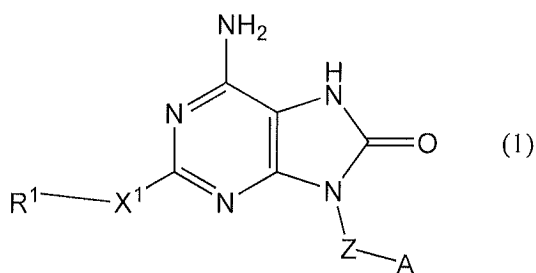


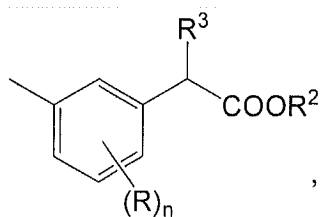
AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

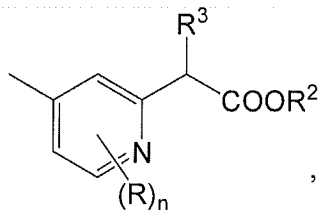
1. (Currently Amended) An 8-oxoadenine compound represented by the following formula (1):



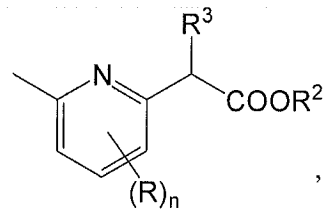
- , wherein A is a group selected from the group consisting of the following formulas (2) to (8):



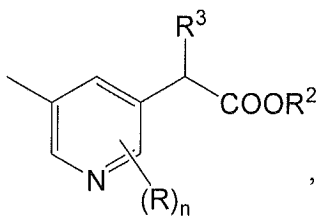
(2)



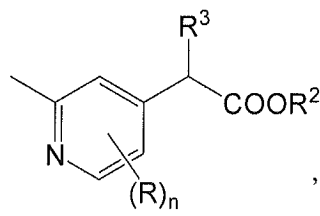
(3)



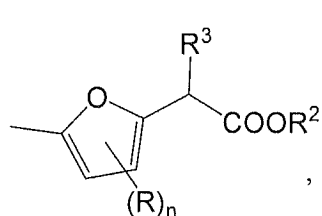
(4)



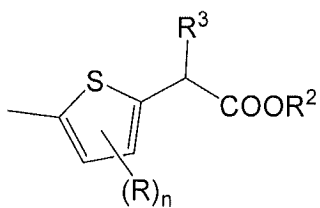
(5)



(6)



(7)



(8)

, wherein R^2 is hydrogen atom, ~~or a substituted or unsubstituted~~ an alkyl group;

R^3 is hydrogen atom or an alkyl group;

R is a halogen atom, a haloalkyl group, a haloalkoxy group, an alkyl group, an alkoxy group, amino group, an alkylamino group or dialkylamino group;

n is an integer of 0 to 2, and when n is 2, R_s may be the same or different;

X^1 is oxygen atom, sulfur atom, SO_2 , NR^4 (wherein R^4 is hydrogen atom or an alkyl group[$[.]$]), or a single bond;

Z is a straight or branched chain alkylene;

R^1 is ~~hydrogen atom, a halogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted alkenyl group, a substituted or unsubstituted alkynyl group,~~ a substituted or unsubstituted aryl group, a substituted or unsubstituted heteroaryl group or a substituted or unsubstituted cycloalkyl group, or a pharmaceutically acceptable salt thereof.

2. (Currently Amended) The 8-oxoadenine compound according to claim 1, wherein

R^2 is a substituted or unsubstituted C_{1-8} alkyl group, wherein said alkyl group may be substituted by one or plural substituents which may be the same or different,

and the substituents (I) on said alkyl group are selected from the group consisting of a halogen atom, hydroxy group, carboxy group, C_{3-8} cycloalkyl group, ~~an~~ C_{1-6} alkoxy group, ~~an~~ C_{1-6} alkylthio group, a C_{3-8} cycloalkoxy group, ~~an~~ C_{2-10} acyloxy group, ~~an~~ C_{1-6} alkylsulfonyl group, ~~an~~ C_{1-6} alkylsulfinyl group, a substituted or unsubstituted carbamoyl group, a substituted or unsubstituted sulfamoyl group, a substituted or unsubstituted amino group, a substituted or unsubstituted 6 to 10 membered aryl group, a substituted or unsubstituted 5 to 10 membered heteroaryl group which contains 1 to 4 hetero atoms consisting of 0 to 2 nitrogen atoms, 0 to 1 oxygen atom and 0 to 1 sulfur atom, and a substituted or unsubstituted 4 to 7 membered saturated heterocyclic group which contains 1 to 4 hetero atoms consisting of 0 to 2 nitrogen atoms, 0 to 2 oxygen atoms and 0 to 2 sulfur atoms;

R^3 is hydrogen atom or an alkyl group[[]];

R is a halogen atom, a C_{1-6} haloalkyl group, a C_{1-6} haloalkoxy group, ~~an~~ C_{1-6} alkyl group, ~~an~~ C_{1-6} alkoxy group, amino group, an C_{1-6} alkylamino group, or a di C_{1-6} alkyl amino group;

n is an integer of 0 to 2, and when n is 2, R_s may be the same or different;

X^1 is oxygen atom, sulfur atom, SO_2 , NR^4 (wherein R^4 is hydrogen atom or an C_{1-6} alkyl group[[.]]), or a single bond;

Z is a straight or branched chain C_{1-8} alkylene;

R^1 is ~~hydrogen atom, a halogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted alkenyl group, a substituted or unsubstituted alkynyl group, a substituted or unsubstituted cycloalkyl group, a substituted or unsubstituted aryl group, or a substituted or unsubstituted heteroaryl group;~~

and the substituents (II) of the said alkyl group, alkenyl group and alkynyl group are selected from the group consisting of a halogen atom, hydroxy group, ~~carboxy group, an C_{1-6} -a C_{1-4}~~ alkoxy group, a C_{1-6} -a C_{1-4} haloalkoxy group, an C_{1-6} -a C_{1-4} alkylthio group, an C_{1-6} -a C_{1-4} alkylsulfonyl group, an C_{1-6} alkylsulfinyl group, an C_{2-5} alkoxy carbonyl group, an C_{2-10} acyloxy group, a substituted or unsubstituted amino group, a substituted or unsubstituted carbamoyl group, a substituted or unsubstituted sulfamoyl group, an ureido group which may be substituted by the same or different one or two alkyl groups, an amino group, a C_{1-4} alkyl amino group, di C_{1-4} alkyl amino group, a morpholino group, a 1-piperadinyl group, a 1-pyrrolidinyl group, a carbamoyl group, a substituted or unsubstituted 6 to 10 membered aryl group, a substituted or unsubstituted aryloxy group, a substituted or unsubstituted arylthio group, a substituted or unsubstituted 5 to 10 membered heteroaryl group which contains 1 to 4 ~~hetero atom~~ heteroatoms selected from 0 to 2 nitrogen atoms, 0 to 1 oxygen atom and 0 to 1 sulfur atom, a substituted or unsubstituted heteroaryloxy group, a substituted or unsubstituted heteroarylthio group, a substituted or unsubstituted C_{3-8} cycloalkyl group, or a substituted or unsubstituted C_{3-8} cycloalkoxy group, a substituted or unsubstituted cycloalkylthio group, a substituted or

~~unsubstituted 4 to 7 membered saturated heterocyclic group which contains 1 to 4 hetero atoms selected from 0 to 2 nitrogen atoms, 0 to 2 oxygen atoms and 0 to 2 sulfur atoms, a substituted or unsubstituted saturated heterocycle-oxy group, and a substituted or unsubstituted saturated heterocycle-thio group;~~
~~and the substituents of said amino group, carbamoyl group and sulfamoyl group are selected from the group consisting an C₁₋₆-alkyl group, an C₂₋₆-alkenyl group, an C₂₋₆-alkynyl group, an C₃₋₆-acycloalkyl group, an C₂₋₅-alkylcarbonyl group, an C₂₋₅-alkoxycarbonyl group and an C₁₋₆ alkylsulfonyl group (the above seven groups may be substituted by a halogen atom, hydroxy group or an alkoxy group, respectively.); or the two substituents may be combined together to form a substituted or unsubstituted 4 to 7 membered saturated heterocyclic group containing 1 to 4 hetero atoms selecting from 1 to 2 nitrogen atoms, 0 to 1 oxygen atom and 0 to 1 sulfur atom;~~
~~the substituents (IV) of said aryl group, aryloxy group, arylthio group, heteroaryl group, heteroaryloxy group, heteroarylthio group, and cycloalkyl group, cycloalkoxy group, cycloalkylthio group, saturated heterocyclic group, saturated heterocycle-oxy group, saturated heterocycle-thio group and saturated nitrogen-containing heterocyclic group are selected from the group consisting of a halogen atom, hydroxy group, carboxy group, an a C₁₋₆ alkyl group, an a C₁₋₆ alkoxy group, an C₂₋₅-alkylcarbonyl group, an C₂₋₅-alkoxycarbonyl group (the above four groups may be substituted by a halogen atom, hydroxy group or an alkoxy group, respectively); a C₁₋₆ haloalkyl group, a C₁₋₆ haloalkoxy group, amino group, an a C₁₋₆ alkylamino group, and a di C₁₋₆ alkyl amino group, in the formula (1),~~
 or its pharmaceutically acceptable salt.

3. (Original) The 8-oxoadenine compound or a pharmaceutically acceptable salt thereof according to claim 1 or 2, wherein R^2 in the formula (1) is methyl group.
4. - 5. (Canceled)
6. (Previously Presented) The 8-oxoadenine compound or a pharmaceutically acceptable salt thereof according to claim 1, wherein R^3 in the formula (1) is hydrogen atom.
7. (Currently Amended) The 8-oxoadenine compound or a pharmaceutically acceptable salt thereof according to claim 1, wherein Z in the formula (1) is a straight chain $C_{+6}-C_{1-5}$ alkylene group.
8. (Previously Presented) The 8-oxoadenine compound or a pharmaceutically acceptable salt thereof according to claim 1, wherein X^1 in the formula (1) is a single bond, oxygen atom or sulfur atom.
9. (Currently Amended) The 8-oxoadenine compound or a pharmaceutically acceptable salt thereof according to claim 1, wherein R^1 in the formula (1) is an $a-C_{1-6}$ alkyl group which is optionally substituted by an alkoxycarbonyl group, hydroxy group or an alkoxy group.
10. (Currently Amended) The 8-oxoadenine compound or a pharmaceutically acceptable salt thereof according to claim 1, wherein X^1 in the formula (1) is a single bond, R^1 is an $a-C_{1-6}$ alkyl group which is substituted by methoxycarbonyl group.
11. (Currently amended) A pharmaceutical composition ~~containing~~ comprising the 8-oxoadenine compound or a pharmaceutically acceptable salt thereof as claimed in claim 1 as an active ingredient and an acceptable carrier.

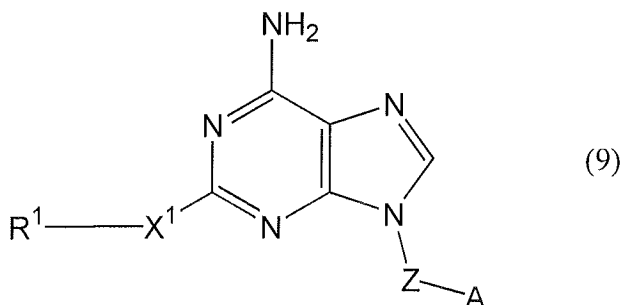
12. (Currently amended) A medicament for topical administration ~~containing~~ comprising the 8-oxoadenine compound or a pharmaceutically acceptable salt thereof as claimed in claim 1 as an active ingredient and an acceptable carrier.

13. (Currently amended) An immuno-modulator ~~containing~~ comprising the 8-oxoadenine compound or a pharmaceutically acceptable salt thereof as claimed in claim 1 as an active ingredient and an acceptable carrier.

14. (Currently amended) A therapeutic or prophylactic agent for ~~viral diseases, cancers or allergic diseases~~ containing comprising the 8-oxoadenine compound or a pharmaceutically acceptable salt thereof as claimed in claim 1 as an active ingredient and an acceptable carrier.

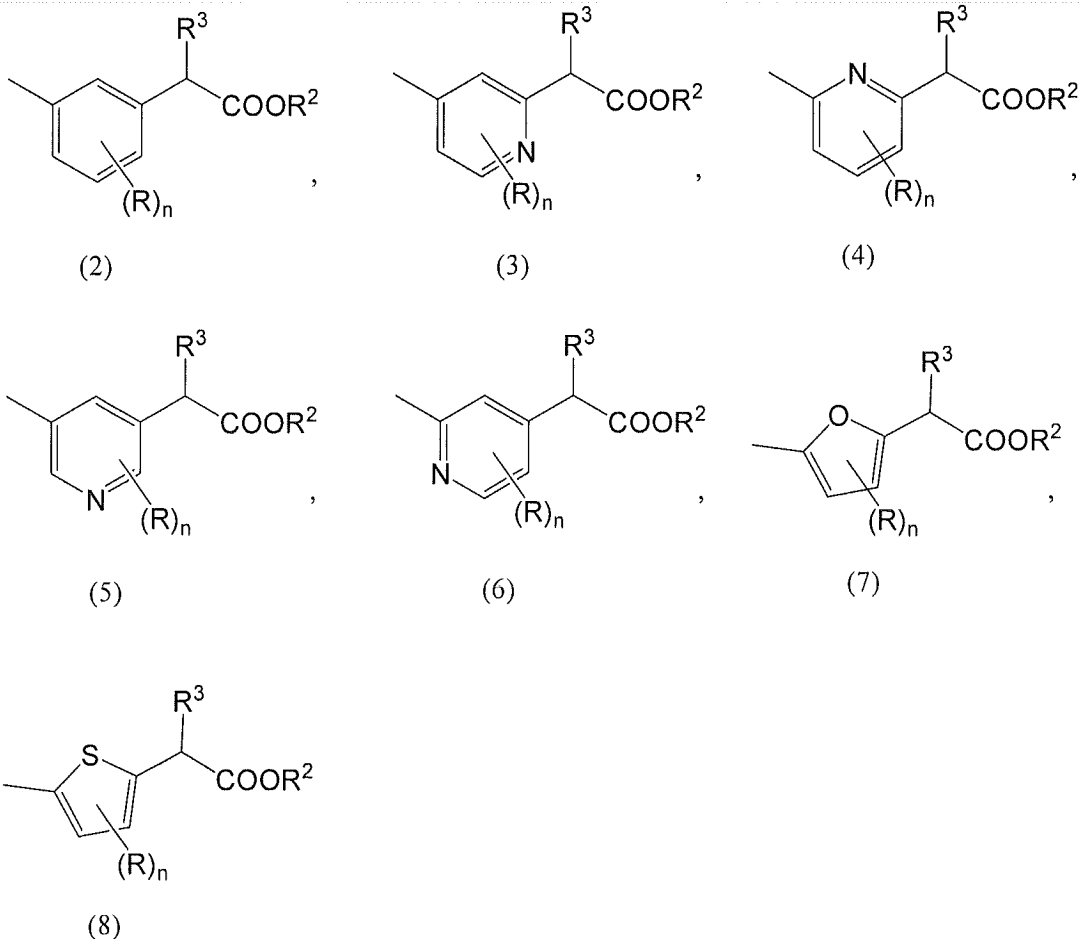
15. – 19. (Canceled)

20. (Currently Amended) A process for preparing the 8-oxoadenine compound as claimed in claim 1, which comprises brominating a compound represented by the formula (9):



, wherein A, Z, R¹ and X¹ ~~are the same as defined above,~~

A is a group selected from the group consisting of the following formulas (2) to (8):



_____, wherein R^2 is hydrogen atom, or a substituted or unsubstituted alkyl group;

R^3 is hydrogen atom or an alkyl group;

R is a halogen atom, a haloalkyl group, a haloalkoxy group, an alkyl group, an alkoxy group, amino group, an alkylamino group or dialkylamino group;

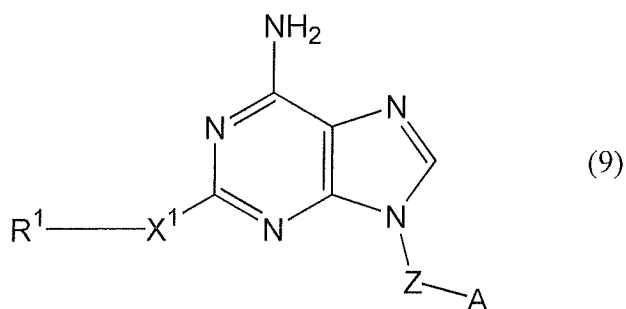
n is an integer of 0 to 2, and when n is 2, R_S may be the same or different;

X^1 is oxygen atom, sulfur atom, SO_2 , NR^4 (wherein R^4 is hydrogen atom or an alkyl group), or a single bond;

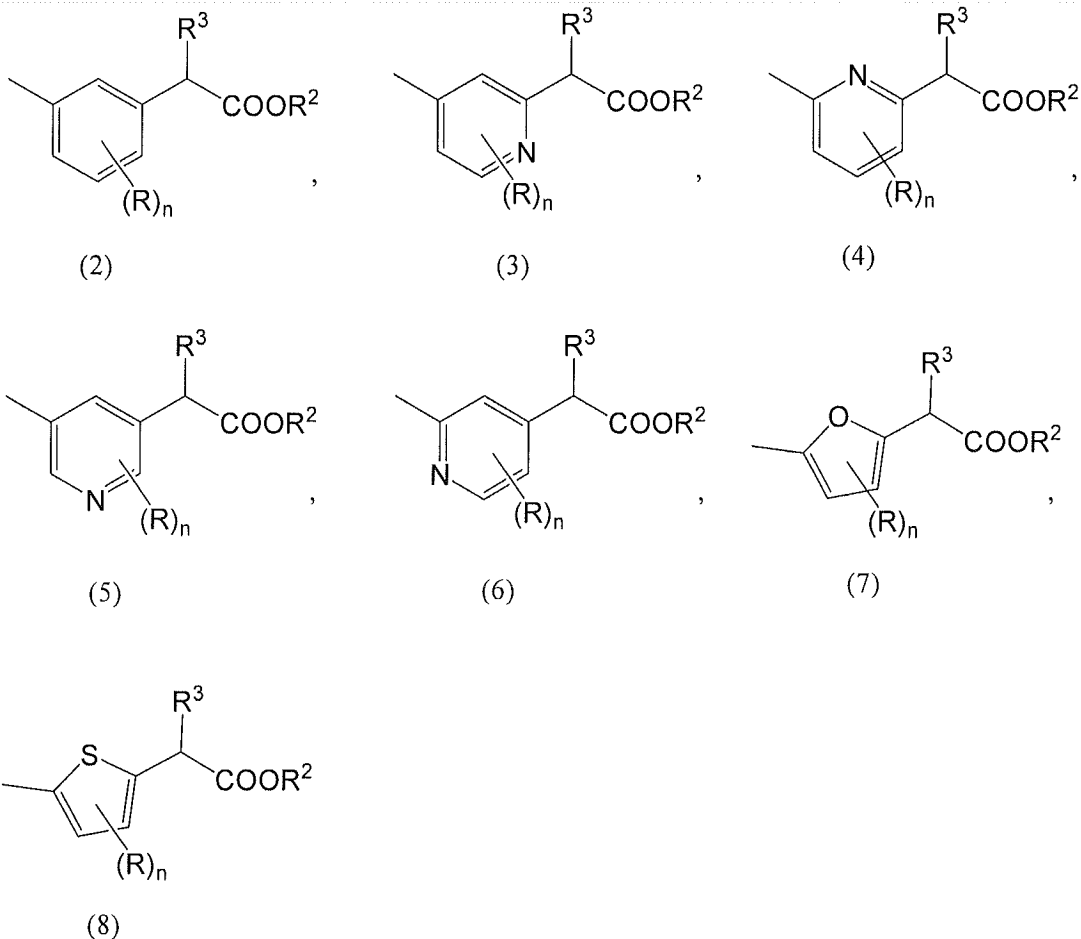
Z is a straight or branched chain alkylene;

R¹ is a substituted or unsubstituted alkyl group, a substituted or unsubstituted aryl group, a substituted or unsubstituted heteroaryl group or a substituted or unsubstituted cycloalkyl group,
and hydrolyzing the resultant or reacting the resultant with a metal alkoxide and then hydrolyzing.

21. (Currently Amended) A compound represented by the formula (9):



, wherein A is a group selected from the group consisting of the following formulas (2) to (8):



_____, wherein R^2 is hydrogen atom, or a substituted or unsubstituted alkyl group;

R^3 is hydrogen atom or an alkyl group;

R is a halogen atom, a haloalkyl group, a haloalkoxy group, an alkyl group, an alkoxy group, amino group, an alkylamino group or dialkylamino group;

n is an integer of 0 to 2, and when n is 2, R_S may be the same or different;

X^1 is oxygen atom, sulfur atom, SO_2 , NR^4 (wherein R^4 is hydrogen atom or an alkyl group), or a single bond;

Z is a straight or branched chain alkylene;

R¹ is a substituted or unsubstituted alkyl group, a substituted or unsubstituted aryl group, a substituted or unsubstituted heteroaryl group or a substituted or unsubstituted cycloalkyl group, or its pharmaceutically acceptable salt

A, Z, R¹ and X¹ are the same as defined in claim 1.

22. (Currently Amended) An 8-oxoadenine compound or its pharmaceutically acceptable salt selected from the group consisting of the following compounds:

8-hydroxy-2-(3-hydroxypropyl thio)-9-(3-methoxycarbonylmethylbenzyl)adenine,
8-hydroxy-2-(4-hydroxybutylthio)-9-(3-methoxycarbonylmethylbenzyl)adenine,
8-hydroxy-2-(2-methoxyethylthio)-9-(3-methoxycarbonylmethylbenzyl)adenine,
8-hydroxy-2-(3-hydroxypropoxy)-9-(3-methoxycarbonylmethylbenzyl)adenine,
8-hydroxy-2-(2-hydroxyethoxy)-9-(3-methoxycarbonylmethylbenzyl)adenine,
8-hydroxy-2-(4-hydroxybutoxy)-9-(3-methoxycarbonylmethylbenzyl)adenine,
8-hydroxy-9-(3-methoxycarbonylmethylbenzyl)-2-(4,4,4-trifluorobutoxy)adenine,
8-hydroxy-9-(3-methoxycarbonylmethylbenzyl)-2-[N-(2-methoxyethyl)amino]adenine,
2-butoxy-8-hydroxy-9-[2-(3-methoxycarbonylmethylphenyl)ethyl]adenine,
2-butoxy-8-hydroxy-9-[3-(3-methoxycarbonylmethylphenyl)propyl]adenine,
2-(2,3-dihydroxy-1-propoxy)-8-hydroxy-9-(3-methoxycarbonylmethylbenzyl)adenine,
2-(2-ethoxyethoxy)-8-hydroxy-9-(3-methoxycarbonylmethylbenzyl)adenine,
2-cyclohexylmethoxy-8-hydroxy-9-(3-methoxycarbonylmethylbenzyl)adenine,
2-benzyloxy-8-hydroxy-9-(3-methoxycarbonylmethylbenzyl)adenine,
8-hydroxy-2-(2-methoxycarbonylethyl)-9-(3-methoxycarbonylmethylbenzyl)adenine,
2-butoxy-8-hydroxy-9-[(5-methoxycarbonylmethyl-2-thienyl)methyl]adenine,

2-butoxy-8-hydroxy-9-{(2-methoxycarbonylmethyl-4-pyridyl)methyl}adenine,
2-butoxy-8-hydroxy-9-{(6-methoxycarbonylmethyl-2-pyridyl)methyl}adenine,
2-butoxy-8-hydroxy-9-{(4-methoxycarbonylmethyl-2-pyridyl)methyl}adenine,
2-butoxy-8-hydroxy-9-[(2-methoxy-5-methoxycarbonylmethyl)benzyl]adenine,
2-butoxy-9-[(4-fluoro-3-methoxycarbonylmethyl)benzyl]-8-hydroxyadenine,
2-butoxy-8-hydroxy-9-[(4-methoxy-3-methoxycarbonylmethyl)benzyl]adenine,
2-butylthio-8-hydroxy-9-(3-methoxycarbonylmethylbenzyl)adenine,
2-[3-(ethylsulfonyl)propoxy]-8-hydroxy-9-(3-methoxycarbonylmethylbenzyl)adenine,
8-hydroxy-9-(3-methoxycarbonylmethylbenzyl)-2-[3-(methylsulfonyl)propoxy]adenine,
8-hydroxy-9-(3-methoxycarbonylmethylbenzyl)-2-(4-pyridylmethylamino)adenine,
8-hydroxy-9-(3-methoxycarbonylmethylbenzyl)-2-[2-methoxyethyl(N-methyl)amino]adenine,
2-benzylamino-8-hydroxy-9-(3-methoxycarbonylmethylbenzyl)adenine,
8-hydroxy-9-(3-methoxycarbonylmethylbenzyl)-2-[(4-pyridylmethyl)oxy]adenine,
2-ethoxy-8-hydroxy-9-(3-methoxycarbonylmethylbenzyl)adenine,
8-hydroxy-9-(3-methoxycarbonylmethylbenzyl)-2-propoxyadenine,
8-hydroxy-9-(3-methoxycarbonylmethylbenzyl)-2-pentoxyadenine,
2-butoxy-8-hydroxy-9-{3-[(4-dimethylaminobutoxy)carbonylmethyl]benzyl}adenine,
2-ethoxy-8-hydroxy-9-{3-[(4-dimethylaminobutoxy)carbonylmethyl]adenine,
2-butoxy-8-hydroxy-9-{3-[(2-dimethylaminoethoxy)carbonylmethyl]benzyl}adenine,
2-butoxy-8-hydroxy-9-{3-[(3-dimethylaminopropoxy)carbonylmethyl]benzyl}adenine,
2-butoxy-8-hydroxy-9-{3-[(6-dimethylaminohexanoxy)carbonylmethyl]benzyl}adenine,
2-butoxy-8-hydroxy-9-{3-[(3-diethylaminopropoxy)carbonylmethyl]benzyl}adenine,

2-butoxy-8-hydroxy-9-{3-[(2-morpholinoethoxy)carbonylmethyl]benzyl}adenine;
2-butoxy-8-hydroxy-9-{3-[(2-piperidinoethoxy)carbonylmethyl]benzyl}adenine;
2-butoxy-8-hydroxy-9-{3-[(2,2,2-trifluoroethoxy)carbonylmethyl]benzyl}adenine;
2-butoxy-8-hydroxy-9-{3-[(2-hydroxyethoxy)carbonylmethyl]benzyl}adenine;
2-butoxy-8-hydroxy-9-{3-[(2,3-dihydroxypropoxy)carbonylmethyl]benzyl}adenine;
2-butoxy-8-hydroxy-9-{5-[(4-dimethylaminobutoxy)carbonylmethyl]-2-methoxybenzyl}adenine;
8-hydroxy-2-(4-hydroxybutylthio)-9-{3-[(2-hydroxyethoxy)carbonylmethyl]benzyl}adenine;
8-hydroxy-9-{3-[(4-dimethylaminobutoxy)carbonylmethyl]benzyl}-2-[(4-pyridylmethyl)oxy]adenine;
2-[2-(4-bromophenyl)oxy]ethoxy]-8-hydroxy-9-(3-methoxycarbonylmethylbenzyl)adenine;
8-hydroxy-9-(3-methoxycarbonylmethylbenzyl)-2-(2-phenyloxyethoxy)adenine;
2-(3-aminopropoxy)-8-hydroxy-9-(3-methoxycarbonylmethylbenzyl)adenine;
2-[3-(N-acetylamino)propoxy]-8-hydroxy-9-(3-methoxycarbonylmethylbenzyl)adenine;
8-hydroxy-2-[3-(N-methanesulfonylamino)propoxy]-9-(3-methoxycarbonylmethylbenzyl)adenine;
8-hydroxy-2-[3-(N-methoxycarbonylamino)propoxy]-9-(3-methoxycarbonylmethylbenzyl)adenine;
8-hydroxy-9-(3-methoxycarbonylmethylbenzyl)-2-(3-ureidopropoxy)adenine;
2-(2-diethylaminoethoxy)-8-hydroxy-9-(3-methoxycarbonylmethylbenzyl)adenine;
8-hydroxy-9-(3-methoxycarbonylmethylbenzyl)-2-trifluoromethyladenine;
2-butyl-8-hydroxy-9-(3-methoxycarbonylmethylbenzyl)adenine;

8-hydroxy-9-(3-methoxycarbonylmethylbenzyl)-2-pentyladenine,
8-hydroxy-9-(3-methoxycarbonylmethylbenzyl)-2-(3-methoxypropyl)adenine,
2-ethoxymethyl-8-hydroxy-9-(3-methoxycarbonylmethylbenzyl)adenine,
2-ethoxymethyl-8-hydroxy-9-{3-[(4-dimethylaminobutoxy)carbonylmethyl]benzyl}adenine,
2-cyclopentyl-8-hydroxy-9-(3-methoxycarbonylmethylbenzyl)adenine,
8-hydroxy-2-(3-hydroxypropyl)-9-(3-methoxycarbonylbenzyl)adenine,
2-(4-fluorobenzyl)-8-hydroxy-9-(3-methoxycarbonylmethylbenzyl)adenine,
8-hydroxy-9-(3-methoxycarbonylmethylbenzyl)-2-(2-pyridylmethoxy)adenine,
8-hydroxy-9-(3-methoxycarbonylmethylbenzyl)-2-(3-pyridylmethoxy)adenine,
8-hydroxy-9-(3-methoxycarbonylmethylbenzyl)-2-(3-morpholinopropoxy)adenine,
8-hydroxy-9-(3-methoxycarbonylmethylbenzyl)-2-{2-(phenylsulfanyl)ethoxy}adenine,
8-hydroxy-9-(3-methoxycarbonylmethylbenzyl)-2-(2-methylsulfanylethoxy)adenine,
8-hydroxy-9-(3-methoxycarbonylmethylbenzyl)-2-phenylsulfanyladenine,
8-hydroxy-9-(3-methoxycarbonylmethylbenzyl)-2-(tetrahydrofuran-2-ylmethoxy)adenine,
9-(3-carboxymethylbenzyl)-8-hydroxy-2-(3-hydroxypropylthio)adenine,
9-(3-carboxymethylbenzyl)-8-hydroxy-2-(4-hydroxybutylthio)adenine,
9-(3-carboxymethylbenzyl)-8-hydroxy-2-(2-methoxyethylthio)adenine,
9-(3-carboxymethylbenzyl)-8-hydroxy-2-(3-hydroxypropoxy)adenine,
9-(3-carboxymethylbenzyl)-8-hydroxy-2-(2-hydroxyethoxy)adenine,
9-(3-carboxymethylbenzyl)-8-hydroxy-2-(4-hydroxybutoxy)adenine,
9-(3-carboxymethylbenzyl)-8-hydroxy-2-(4,4,4-trifluorobutoxy)adenine,
9-(3-carboxymethylbenzyl)-8-hydroxy-2-[N-(2-methoxyethyl)amino]adenine,

2-butoxy-9-[2-(3-carboxymethylphenyl)ethyl]-8-hydroxyadenine,
2-butoxy-9-[3-(3-carboxymethylphenyl)propyl]-8-hydroxyadenine,
9-(3-carboxymethylbenzyl)-2-(2,3-dihydroxy-1-propoxy)-8-hydroxyadenine,
9-(3-carboxymethylbenzyl)-2-(2-ethoxyethoxy)-8-hydroxyadenine,
9-(3-carboxymethylbenzyl)-2-cyclohexylmethoxy-8-hydroxyadenine,
2-benzyl-9-(3-carboxymethylbenzyl)-8-hydroxyadenine,
2-(2-carboxyethyl)-9-(3-carboxymethylbenzyl)-8-hydroxyadenine,
2-butoxy 9-{{(5-carboxymethyl-2-thienyl)methyl}}-8-hydroxyadenine,
2-butoxy-9-{{(6-carboxymethyl-2-pyridyl)methyl}}-8-hydroxyadenine,
2-butoxy-9-{{(4-carboxymethyl-2-pyridyl)methyl}}-8-hydroxyadenine,
2-butoxy-9-(5-carboxymethyl-2-methoxy)benzyl-8-hydroxyadenine,
2-butoxy-9-(3-carboxymethyl-4-fluoro)benzyl-8-hydroxyadenine, and
2-butoxy-9-(3-carboxymethyl-4-methoxy)benzyl-8-hydroxyadenine,;
~~9-(3-carboxymethylbenzyl)-2-ethoxy-8-hydroxyadenine,~~
~~9-(3-carboxymethylbenzyl)-8-hydroxy-2-propoxyadenine,~~
~~9-(3-carboxymethylbenzyl)-8-hydroxy-2-pentoxyadenine,~~
~~9-(3-carboxymethylbenzyl)-8-hydroxy-2-(2-phenyloxyethoxy)adenine,~~
~~2-[3-(N-acetylamino)propoxy]-9-(3-carboxymethylbenzyl)-8-hydroxyadenine,~~
~~9-(3-carboxymethylbenzyl)-8-hydroxy-2-[3-(N-methanesulfonylamino)propoxy]adenine,~~
~~9-(3-carboxymethylbenzyl)-2-cyclopentyl-8-hydroxyadenine~~
~~9-(3-carboxymethylbenzyl)-8-hydroxy-2-(3-hydroxypropane-1-yl)adenine,~~
~~9-(3-carboxymethylbenzyl)-8-hydroxy-2-(2-pyridylmethoxy)adenine,~~

~~9-(3-carboxymethylbenzyl)-8-hydroxy-2-(3-pyridylmethoxy)adenine,~~

~~9-(3-carboxymethylbenzyl)-8-hydroxy-2-(2-phenylsulfanylethoxy)adenine,~~

and

~~9-(3-carboxymethylbenzyl)-8-hydroxy-2-(tetrahydrofuran-2-ylmethoxy)adenine.~~